

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for transmitting asynchronous data packets including telemetry data of flight testing installations, comprising the steps of:

starting a packeting operation of asynchronous data including telemetry data of flight testing installations in several at least three packeting modules;

receiving, in said several at least three packeting modules, a message directly from a message composition module when the message composition module needs a data packet;

interrupting said packeting operation based on said message;

transmitting a packet of asynchronous data from each of the several at least three packeting modules formed during said packeting operation prior to said interrupting step even if the packeting operation of the asynchronous data is not completed; and

repeating said steps of starting, receiving said message, interrupting, and transmitting thereby transmitting a plurality of data packets,

wherein said message composition module directly receives packets outputted by said several at least three packeting modules, and a transmission time TMS of an outputted message from said message composition module, a packeting time TP, and a transmission time TT satisfy TT=TP+TMS, with TP >> TMS.

Claim 2 (Currently Amended): The process of Claim 1, wherein the several at least three packeting modules are not directly connected to each other.

Claim 3 (Currently Amended): The process of Claim 1, wherein said step of receiving said packets is performed in a predefined order.

Claim 4 (Currently Amended): The process of Claim 2, further comprising:
~~the step of~~ composing a message with said packets at said message composition module.

Claim 5 (Currently Amended): The process of Claim 4, further comprising:
~~the step of~~ formatting said message into a formatted message in a formatting module which accepts an output of said message composition module.

Claim 6 (Currently Amended): The process of Claim 5, further comprising:
~~the step of~~ transmitting said formatted message to an external device.

Claim 7 (Currently Amended): The process of Claim 1, wherein said interrupting ~~step~~ is immediately triggered when said message is received from said message composition module.

Claim 8 (Original): The process of Claim 6, wherein a packeting time duration for said packeting operation is more than half of a total time duration for packeting said asynchronous data and for transmitting said formatted message.

Claim 9 (Currently Amended): The process of Claim 8, wherein said total time duration is less than 100 ms, ~~said packeting time duration is approximately equal to said total time duration, and a time duration for transmitting said message is negligible compared to said packeting time duration.~~

Claim 10 (Original): The process of Claim 1, wherein a packeting time duration for said packeting operation is equal to a cycle time for a transmission line over which said packets are transmitted.

Claim 11 (Original): The process of Claim 6, wherein a packeting time duration for said packeting operation is more than a time duration for transmitting said message.

Claim 12 (Currently Amended): A process for transmitting a packet of asynchronous data including telemetry data of flight testing installations, comprising ~~the steps of:~~ packeting, in a packeting module, said asynchronous data including telemetry data of flight testing installations into a packet during a packeting time; requesting, by a message composition module, said packet when said message composition module needs said packet; stopping said packeting; composing a message comprising said packet; and transmitting said message during a message transmitting time even if the packeting is not completed,

wherein ~~said step of requesting is performed so that said packeting time is greater than said message transmitting time~~ a transmission time TMS of an outputted message from said message composition module, a packeting time TP, and a transmission time TT satisfy $TT=TP+TMS$, with $TP \gg TMS$.

Claim 13 (Currently Amended): The process of Claim 12, wherein ~~said step of~~ transmitting said message is performed over a transmission line having a cycle time, and said ~~step of~~ requesting is performed so that said packeting time is equal to said cycle time.

Claim 14 (Currently Amended): The process of Claim 12, wherein said stopping step is triggered by said requesting step.

Claim 15 (Original): The process of Claim 12, wherein said packeting time is more than half of a total time for packeting said asynchronous data and for transmitting said message.

Claim 16 (Currently Amended): The process of Claim 15, wherein said total time is less than 100 ms ~~and said message transmitting time is so short compared to said packeting time that said total time is approximately equal to said packeting time.~~

Claim 17 (Previously Presented): The process of Claim 12, further comprising: recovering, one after another, packets created in a predefined order in a message composition module.

Claim 18 (Previously Presented): The process of Claim 1, wherein the message composition module recovers the data packets created by a plurality of successive packeting modules one after the other in a predefined order.

Claim 19 (Currently Amended): The process of Claim [[9]] 12, wherein said total time duration is less than 100 ms.

Claim 20 (Previously Presented): The process of Claim 1, wherein said message includes a number of data in said packet of asynchronous data equal to or less than 11, and said message includes one wrapping.

Claim 21 (Previously Presented): The process of Claim 1, wherein said packeting operation includes sorting and enhancing data.

Claim 22 (Currently Amended): The process of Claim 1, further comprising:
~~a step of requesting said data packet from said message composition module; and said step of transmitting said packet of asynchronous data from the packeting module is performed as soon as the message composition module requests said data packet.~~

Claim 23 (Currently Amended): The process of Claim 1, wherein said ~~step of~~ interrupting said packeting operation is performed as soon as the packeting module receives the message from the message composition module, and further comprising ~~a step of~~ transmitting an incomplete data packet, being composed at a time of said interrupting, to the message composition module after said ~~step of~~ interrupting said incomplete packet, and further comprising ~~a step of~~ starting a next packeting operation composing a next data packet as soon as the incomplete packet is transmitted.

Claim 24 (Previously Presented): The process of Claim 1, wherein the message composition module needs said data packet after the message composition module has transmitted a previous data packet and the message composition module is ready to start the packeting operation again.

Claim 25 (New): The process of Claim 1, wherein the several packeting modules are at least three packeting modules.